```
gi|51556213|ref|NP_001003948.1|   ------------------------------------------------------------------------------------------------------------------------------------------------------   150
gi|109486297|ref|XP_576601.2|     ----------------------------MVAP----WV----------LRAELA--PGRSGEGCS-----LKPARA----CS---DRAGPGGGGGRRERPWRWG---------------PGGA--------------AQSSEL--RTDWR   150
gi|114583759|ref|XP_526050.2|     ------------------------------------------------------------------------------------------------------------------------------------------------------   150
gi|73994112|ref|XP_534594.2|      MGKLKITSQNRPHEQASEMYIHGGPITRASAPGVYRWVQSKWQGLGKWLRKVFKRKLGERGVLCSSGETETGPREASLWLCQRLLGRQGCWTCQGRAADPQLRGLEAFPSTLSAHTLHQPSSAQLTFPTLPSSPNPQAQRVALLPRHSWR   150
gi|118601764|ref|NP_001073052.1|  ------------------------------------------------------------------------------------------------------------------------------------------------------   150
gi|154816208|ref|NP_001094288.1|  ------------------------------------------------------------------------------------------------------------------------------------------------------   150
gi|118095055|ref|XP_422605.2|     ------------------------------------------------MHRSLRRDSSELTVRGETREFGTGPHLP---------ARPFPRGAARSLEGSTAGG---------------PGSS----------------ARALPAAGDAR   150
gi|61806578|ref|NP_001013522.1|   ------------------------------------------------------------------------------------------------------------------------------------------------------   150
                                  1.......10........20........30........40........50........60........70........80........90.......100.......110.......120.......130.......140.......150

                                                                                                                                                         ***:*******:*:*:*:*:**********:
gi|51556213|ref|NP_001003948.1|   -----------------------------------------------------------------------------------------------------------------------MLKSKLNVLTLKKEPIPAVLFHEPEAIELCT   300
gi|109486297|ref|XP_576601.2|     PERSPQVAGSGAPPRPALSSCAHRAAAGAR-------TLS--LQTLTP---DVTAGPQLP--LLPGATH------------RVSPASLPKPQGW---------K-MWQPATERLQHFQTMLKSKLNVLTLKKEPIPAVIFHEPEAIELCT   300
gi|114583759|ref|XP_526050.2|     ---------------------------------------------------------------------------------------------------------MWQPATERLQHFQTMLKSKLNVLTLKKEPLPAVIFHEPEAIELCT   300
gi|73994112|ref|XP_534594.2|      FENSEAPAPAPHPRRTSAPDVKRRRSPSPRPPEPSRASVAGVCSAQSPGLEDVAAGHRAPAGLLCALEHVTLGRRELWLALRMAIVPLLETSSWLFCETYTSAKGSWSAGSQLNWHFQTMLKSKLNVLTLKKEPLPAVIFHEPEAIELCT   300
gi|118601764|ref|NP_001073052.1|  -----------------------------------------------------------------------------------------------------------------------MLKSKLNVLTLKKEPLPAVIFHEPEAIELCT   300
gi|154816208|ref|NP_001094288.1|  ---------------------------------------------------------------------------------------------------------MWQPATERLQHFQTMLKSKLNVLTLKKEPLPAVIFHEPEAIELCT   300
gi|118095055|ref|XP_422605.2|     AARTDPPPAAQLPRGSARGARPRGGRAWEE-------------RGRSGGRSAERSGPAEP---------------------RSAPARQRLPPPG----------TMWQPATERLQHFQTMLKTKLNVLTLRKEPLPTVIFHEPEAIELCT   300
gi|61806578|ref|NP_001013522.1|   -----------------------------------------------------------------------------------------------------------------------MLKTKLNVLTLRKDPLPTVIFHEPEAIELCS   300
                                  .......160.......170.......180.......190.......200.......210.......220.......230.......240.......250.......260.......270.......280.......290.......300
```

```
                                  ***  * *:::* ********. :* :*******..*: **  *: ::::: :  .:**:******** :**** :***** ****************::***:***:**:*****::*******:************:*****:*****
gi|51556213|ref|NP_001003948.1|   TTPLMKARTHSGCKVTYLGKVSTTGMQFLSGCTEKPVIELW--KKHTLARED-VFPANALLEIRPFQVWLHHLDHKGEATVHMDTFQVARIAYCTADHNVSPNIFAWVYREINDDLSYQMDCHAVQCESKLEAKKLAHAMMEAFKKTFHS   450
gi|109486297|ref|XP_576601.2|     TTPLMKARTHSGCKVTYLGKVSTTGMQFLSGCTEKPVIELW--KKHTLAREE-VFPANALLEIRPFQVWLHHLDHKGEATVHMDTFQVARIAYCTADHNVSPNIFAWVYREINDDLSYQMDCHAVQCESKLEAKKLAHAMMEAFKKTFHS   450
gi|114583759|ref|XP_526050.2|     TTPLMKTRTHSGCKVTYLGKVSTTGMQFLSGCTEKPVIELW--KKHTLARED-VFPANALLEIRPFQVWLHHLDHKGEATVHMDTFQVARIAYCTADHNVSPNIFAWVYREINDDLSYQMDCHAVECESKLEAKKLAHAMMEAFRKTFHS   450
gi|73994112|ref|XP_534594.2|      TTPLMKTRTHSGCKVTYLGKVPTTGMQFLSGCTEKPVIELW--KKHTLARED-VFPANALLEIRPFQVWLHHLDHKGEATVHMDTFQVARIAYCTADHNVSPNIFAWVYREINDDLSYQMDCHAVECESKLEAKKLAHAMMEAFKKTFHS   450
gi|118601764|ref|NP_001073052.1|  TTPLMKTRTQSGCKVTYLGKVPTTGMQFLSGCTEKPVIELW--KKHTLARED-VFPANALLEIRPFQVWLHHLDHKGEATVHMDTFQVARIAYCTADHNVSPNIFAWVYREINDDLSYQMDCHAVECESKLEAKKLAHAMMEAFKKTFHS   450
gi|154816208|ref|NP_001094288.1|  TTPLMKTRTHSGCKVTYLGKVSTTGMQFLSGCTEKPVIELW--KKHTLARED-VFPANALLEIRPFQVWLHHLDHKGEATVHMDTFQVARIAYCTADHNVSPNIFAWVYREINDDLSYQMDCHAVECESKLEAKKLAHAMMEAFRKTFHS   450
gi|118095055|ref|XP_422605.2|     TTPLMKTRAHTGCKVTYLGKVSTTGMQFLSGCTEKPVIELW--KKHTLARED-IYPANALLEIRPFQVWLHHLDLKGEATVHMDTFQVARIAYCTADHNISPNIFAWVYREINDDLSYQMDCHAVECESKLEAKKLAHAMMEAFKKTFHS   450
gi|61806578|ref|NP_001013522.1|   TTPHAKNRTHTGYKVTYLGKVTISGTHFLSGCTESAVVGLWDTKQTSVTHDDSITSSNAILEIRPFQVRMHHLDGRGEATVAMDTFQVARIAYCTADHDISPNVFAWIYRQINDDLTFQMDCHAVECESKLEAKKLAHSMMEAFKKTFHS   450
                                  .......310.......320.......330.......340.......350.......360.......370.......380.......390.......400.......410.......420.......430.......440.......450
```

```
                                  *:****** ..**:* ..  .: ***
gi|51556213|ref|NP_001003948.1|   MKSDGRIHRSSSSEEASQELES-DDG   476
gi|109486297|ref|XP_576601.2|     MKSDGRIHRSSSSEEASQELES-DDG   476
gi|114583759|ref|XP_526050.2|     MKSDGRIHSNSSSEEVSQELES-DDG   476
gi|73994112|ref|XP_534594.2|      MKSDGRIHRNSSSEEVSQELES-DDG   476
gi|118601764|ref|NP_001073052.1|  MKSDGRIHRNSSSEEASQELES-DDG   476
gi|154816208|ref|NP_001094288.1|  MKSDGRIHSNSSSEEVSQELES-DDG   476
gi|118095055|ref|XP_422605.2|     MKSDGRIHRNSSSEEVSHGFES-DDG   476
gi|61806578|ref|NP_001013522.1|   MRSDGRIHKSGSSDEFPEEPSTPDDG   476
                                  .......460.......470......
```